

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/02445

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N17/02		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 G01N		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 238 298 A (HARUYAMA SHIRO ET AL) 9 December 1980 (1980-12-09) column 3, line 22 - line 54 ---	1-9
X	US 5 180 969 A (KWUN HEGEON ET AL) 19 January 1993 (1993-01-19) column 3, line 50 -column 4, line 33; figure 1 ---	1
X	PATENT ABSTRACTS OF JAPAN vol. 010, no. 256 (P-493), 2 September 1986 (1986-09-02) & JP 61 083951 A (NIPPON STEEL CORP), 28 April 1986 (1986-04-28) abstract --- <div style="text-align: center;">-/--</div>	1
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex. </div>		
<div style="display: flex;"> <div style="flex: 1;"> <p>* Special categories of cited documents:</p> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="flex: 1;"> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*G* document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center; font-weight: bold;">12 August 2003</div>		Date of mailing of the international search report <div style="text-align: center; font-weight: bold;">26/08/2003</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax. (+31-70) 340-3016		Authorized officer <div style="text-align: center; font-weight: bold;">Purdie, D</div>

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 446 369 A (BYRNE MARK T ET AL) 29 August 1995 (1995-08-29) column 11, line 53 -column 12; line 25 -----	1
X	EP 0 882 975 A (TOKYO GAS CO LTD) 9 December 1998 (1998-12-09) page 4, line 53 -page 5, line 9; figure 8 -----	1

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 10, 11
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 10,11

Neither claim 10 nor claim 11 contains any technical features (Rule 6.3(a) PCT). The resulting lack of clarity means that no meaningful search is possible for these two claims.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4238298	A	09-12-1980	JP 1247980 C	16-01-1985
			JP 55047433 A	03-04-1980
			JP 59025456 B	18-06-1984
			DE 2919642 A1	03-04-1980
US 5180969	A	19-01-1993	NONE	
JP 61083951	A	28-04-1986	NONE	
US 5446369	A	29-08-1995	AU 5325094 A	09-05-1994
			WO 9409354 A1	28-04-1994
EP 0882975	A	09-12-1998	JP 3058844 B2	04-07-2000
			JP 10332622 A	18-12-1998
			CA 2234548 A1	03-12-1998
			EP 0882975 A1	09-12-1998
			US 6160403 A	12-12-2000